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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,484	05/10/2005	Markus Heinrich Klein	NL 021122	5014
24737	7590	12/12/2007		
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
P.O. BOX 3001			ABDIN, SHAHEDA A	
BRIARCLIFF MANOR, NY 10510				
			ART UNIT	PAPER NUMBER
			2629	
			MAIL DATE	DELIVERY MODE
			12/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/534,484

Applicant(s)

KLEIN ET AL.

Examiner

Shaheda A. Abdin

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 10 May 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 May 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Objections

2. Claims 1-10 are objected to because of the following informalities: The use of parentheses in claims 1-10 are improper because the parentheses uses only for the reference characters (see MPEP 608.01(M)). Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-7, and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by Wei et al. (US. Patent No: 5723950).

(1) Regarding claims 1 and 11:

Wei discloses a display device (in Fig. 3) comprising a plurality of light emitting elements (i.e. 11') at least one of said elements having an associated capacitor (i.e. 12'), said device comprising pre-charging means (40', 22' including 27') for generating

a pre-charge signal for at least partially charging said associated capacitor (12') (column 5, lines 40-67, column 5, lines 6-40) , said pre-charge signal comprising at least a first pre-charge signal (current I, from 22') in a first pre-charge stage and a second pre-charge signal (i.e. 51, from 40'') in a second pre-charge stage (see the illustration in Fig. 4, current and voltage waveforms at various point of the circuit of Fig. 3, i.e. at time = '0' the first pre charge stage is started and at time = T0 the second pre charge stage is started) (column 5, lines 30-67 and column 6, lines 49-67).

(2) Regarding claim 2:

Wei teaches said pre-charging means comprise a current source (22') for generating a pre-charge current (i.e. I) as the first pre-charge signal during said first pre-charge stage, and a voltage source (i.e. 40') for generating a subsequent pre-charge voltage (i.e. 51) as the second pre-charge signal during said second pre-charge stage (column 5, lines 40-67, column 6, lines 49-67 and Fig 3 –Fig.4).

(3) Regarding claim 3:

Wei teaches wherein a current limiting means is provided, which is adapted to limit said pre-charge current in operation (i.e. current control terminal 27') (column 5, lines 15-20 and Fig. 3).

(4) Regarding claim 4:

wherein said current limiting means is said current source (22' including 27')
(column 5, lines 15-20 and Fig. 3).

(5) Regarding claim 5:

Wei teaches wherein said current limiting means (22' including 27')
comprises at least one resistor (i.e. register after element 27') arranged so as to limit
said pre-charge current (see Fig. 3).

(6) Regarding claim 6:

Wei teaches said voltage source (i.e. 40) is adapted to select, in operation, at
least one of said light emitting elements (i.e. 11') and said current source (i.e. 22 is
connected to said voltage source so as to limit the (limit by controller 27') pre- charge
current (column 4, lines 17-39, Fig. 3).

(7) Regarding claim 7:

Wei teaches wherein said pre-charging means comprises a voltage source (40')
in order to generate a pre-charge voltage as the first pre-charge signal (i.e. current I,
from 22') during said first pre-charge stage and a subsequent
pre-charge voltage as the second pre-charge signal during said second
pre-charge stage (i.e. 51, from 40') (see Fig. 3, column 4 lines 40-67, column 5, lines
14-40).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wei in view of Lechevalier (US. Patent No: 7019720).

(8) Regarding claim 8:

Note that Wei does not teach a means for selecting a resistance to generate the pre-charge voltage .

However, LeChevalier et al. in the same field of endeavor teaches a means (i.e. 264 or 266 or 532 or 542) for selecting a resistance (i.e. 512 or 526) to generate the pre-charge voltage and the subsequent pre-charge voltage (note that register 512 or 526 is to store voltage, current from current source 284 will flow through the resistor and subsequent pre-charge voltage will be occurred at the same times) (see Fig. 2 and column 12, lines 15-40).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate a means for selecting a resistance to generate the pre-charge voltage and the subsequent pre-charge voltage as taught by LeChevalier into the display system of Wei so that a means for selecting a resistance could be

generated the pre-charge voltage and the subsequent pre-charge voltage. In this configuration the system would have high capability of generating relatively high amount of light in the display devices (Lechevalier, column 6, lines 16-30).

(9) Regarding claim 9:

Lechevalier teaches sensing unit (i.e. Vdd, means for sensing the voltage, Fig. 9) is provided to obtain an operating voltage of at least one light emitting element (i.e. pixel element 224) (column 6, 55-67, column 7, lines 1-9 and column 27, lines 1-20) and Wei teaches said voltage source (i.e. 40') is adapted to generate said subsequent pre-charge voltage in accordance with said operating voltage (column 5, lines 30-67 and column 6, lines 49-67). Thus the references meet the claim limitation.

(10) Regarding claim 10:

Lechevalier teaches wherein said operating voltage is obtained by said sensing unit (i.e. means for sensing the voltage) in a steady state of said light emitting element (i.e. 224) (column 7, lines 63-67, column 8, lines 1-15, column 27, lines 1-20, column 37, lines 65-67, column 38, lines 1-8, column 39, 1-8, and column 40, lines 1-4)

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to

applicant's discloser. Kawashina (US PU. No: 2002/0036605 A1) discloses a organic EL display device and method for driving the same.

Inquiry

8. Any inquiry concerning this communication should be directed to the examiner at (571) 270-1673 Monday- Friday 7:30 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chanh Nguyen, can be reached at (571) 272-7772.

Information regarding the status on an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9799 (IN USA OR CANADA) or 571-272-1000.

Any response to this action should be mailed to:

Commissioner of patents and trademarks

Washington, D.C. 20231

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Or fax to:

(703)872-9314 (for Technology Center 2600 only)

Shaheda Abdin

12/07/2007

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CHANH D. NGUYEN
SUPERVISORY PATENT EXAMINER